

Storm Data and Unusual Weather Phenomena

April 1999

Location	Date	Time Local/ Standard	Path Length (Miles)	Path Width (Yards)	Number of Persons Killed	Number of Persons Injured	Estimated Damage Property	Estimated Damage Crops	Character of Storm
INDIANA, Northeast									
Miami County									
5 E Bennetts Switch to Wawpecong	09	0115EST			0	0	5K		Thunderstorm Wind
									Trees and power lines were blown down due to a small downburst that hit the south central part of the county.
Jay County									
Boundary City	09	0915EST			0	0	50K		Thunderstorm Wind
									A mobile home was completely destroyed by the high winds. A nearby house sustained considerable damage with several large trees blown down as well.
La Porte County									
La Porte	10	1830EST			0	0			Hail (0.75)
La Porte County									
3 NW La Porte	10	1833EST			0	0			Hail (0.75)
La Porte County									
La Porte	10	1900EST			0	0			Hail (1.50)
									Hail caused some roof and auto damage in town due to the extended hail fall with several inches accumulating in some parts of town.
St. Joseph County									
Sbn Michiana Arpt	10	1903EST			0	0			Hail (0.75)
St. Joseph County									
1 N South Bend	10	1905EST			0	0			Hail (1.25)
St. Joseph County									
Sbn Michiana Arpt	10	1906EST			0	0			Hail (1.25)
St. Joseph County									
Mishawaka	10	1918EST			0	0			Hail (0.75)
St. Joseph County									
Mishawaka	10	1919EST			0	0			Hail (1.00)
St. Joseph County									
2 NW Osceola	10	1920EST			0	0			Hail (1.00)
St. Joseph County									
1 E Mishawaka	10	1924EST			0	0			Hail (1.00)
St. Joseph County									
Osceola	10	1928EST			0	0			Hail (0.75)
Elkhart County									
1 W Elkhart	10	1932EST			0	0			Hail (1.00)
Elkhart County									
1 E Elkhart	10	1937EST			0	0			Hail (0.75)
Pulaski County									
Winamac	10	1937EST			0	0			Hail (1.75)
Marshall County									
1 N Lapaz	10	1945EST			0	0			Hail (0.75)
Elkhart County									
Wakarusa	10	1953EST			0	0			Hail (0.75)
Elkhart County									
Waterford Mills	10	2000EST			0	0			Hail (0.88)

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					Killed	Injured	Crops			
INDIANA, Northeast										
Fulton County Rochester	10	2000EST			0	0				Hail (1.75)
Fulton County Rochester	10	2000EST 2003EST			0	0				Hail (0.75)
Fulton County Talma	10	2000EST			0	0				Hail (0.75)
Fulton County 2 S Rochester	10	2003EST			0	0				Hail (1.00)
Kosciusko County Syracuse	10	2010EST			0	0				Hail (1.00)
Lagrange County Topeka	10	2014EST			0	0				Hail (1.00)
Noble County Albion to 5 ESE Albion	10	2014EST 2020EST			0	0		50K		Thunderstorm Wind
Numerous trees were blown down starting in the town of Albion and continuing along for 5 miles just south of highway 8. Several homes sustained minor damage. One mobile home 2 miles southeast of Albion was destroyed. Two farmsteads had their grain bins blown down and another farmstead had a barn destroyed by the high winds.										
Noble County Ligonier	10	2019EST			0	0				Hail (1.00)
Noble County Ligonier	10	2019EST			0	0				Hail (1.75)
Noble County Wolflake	10	2039EST			0	0				Hail (0.75)
Wabash County 2 NE North Manchester	10	2040EST			0	0				Hail (0.75)
De Kalb County Auburn	10	2055EST			0	0		20K		Thunderstorm Wind
One home had its roof blown off with several large trees and limbs down in town.										
Whitley County Churubusco	10	2057EST			0	0				Hail (0.75)
Allen County Ft Wayne	10	2105EST			0	0				Hail (1.75)
De Kalb County Auburn	10	2105EST			0	0				Hail (0.75)
Allen County 5 NE Ft Wayne	10	2115EST			0	0				Hail (1.00)
Steuben County Hamilton	10	2130EST			0	0				Hail (0.75)
Miami County Denver	11	0007EST			0	0				Hail (0.75)
Marshall County Argos	22	1530EST			0	0		3K		Thunderstorm Wind
Conservation officer reported to county sheriff that trees and power lines were down.										

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Marshall County									
Bourbon	22	1530EST			0	0			Thunderstorm Wind (G60)
									Thunderstorm wind gusts damaged two 15-inch diameter pine trees. Tree trunks were broken half way up. Two other 15-inch diameter pine trees were uprooted.
Kosciusko County									
Etna Green	22	1540EST			0	0	5K		Thunderstorm Wind
									Sheiff and amateur radio operator reported several trees blown down and a roof blown off of a repair shop.
Kosciusko County									
Warsaw	22	1555EST			0	0			Thunderstorm Wind (G60)
									Thunderstorm wind gusts of 55 to 60 MPH reported by an off-duty NWS employee.
Fulton County									
Rochester	22	1610EST			0	0			Urban/Sml Stream Fld
									Flooding reported along State Road 110 and Old 31 north of Rochester.
Noble County									
Albion	22	1625EST			0	0			Hail (0.75)
Whitley County									
Dunfee	22	1655EST			0	0			Hail (0.75)
									Spotter reported .75 inch hail in Dunfee.
Allen County									
Ft Wayne	22	1725EST			0	0			Hail (0.75)
									Hail of .75 inch diameter reported by amateur radio operators at St. Francis College and at Coliseum Blvd. NW of Ft. Wayne.
Huntington County									
Roanoke	22	2020EST			0	0			Urban/Sml Stream Fld
									Flooding reported by Huntington County Sheriff along US Route 24 and Roanoke Road/800N near Roanoke.
Wabash County									
Liberty Mills	22	2130EST			0	0			Urban/Sml Stream Fld
									Water was reported to be over local roads in the vicinity of Liberty Mills.
Wabash County									
North Manchester	22	2130EST			0	0			Urban/Sml Stream Fld
									State Road 13 was reported to be flooded south of North Manchester.
Allen County									
Ft Wayne	22	2145EST			0	0			Urban/Sml Stream Fld
									Water was reported flowing across Interstate 469 at mile marker four 8 miles south of Ft. Wayne.
Allen County									
Ft Wayne	22	2145EST			0	0			Urban/Sml Stream Fld
									U.S. Route 24 was reported to be flooded 10 miles south of Ft. Wayne.
									A warm front across the southern Great Lakes region served as the focus for strong to severe thunderstorms. Overrunning precipitation was heavy enough to cause localized flooding over a narrow portion of northeastern Indiana. Thunderstorms training along the warm front dumped up to 2 inches of rain per hour across the region. Dew points were in the lower 60s south of the warm front and provided ample moisture for the convection to sustain itself. A low-level jet over southern Illinois and Indiana aided in the thunderstorm development.

OHIO, Northwest

Defiance County									
Hicksville	10	2115EST			0	0	0		Thunderstorm Wind
									Trees and power lines were reported blown down.
Paulding County									
Paulding	10	2140EST			0	0			Hail (0.75)

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OHIO, Northwest

Synoptic and mesoscale conditions on April 10th, 1999...

A strong low pressure system was located near St. Louis, MO during the afternoon of April 10, 1999 and was forecast to move northeast into southern Michigan by 12z on the 11th. Although the boundary layer was quite stable across northern Indiana with surface temperatures in the middle 50s and dewpoints in the low 30s... very unstable air was located south of the warm front draped through the Ohio valley. As low pressure intensified during the afternoon of the 10th...a strong low level jet (60 knots) developed from southern Illinois into central Indiana. Most unstable parcel CAPE lifted from 800 millibars were on the order of 1500 J/kg... lifted indices from -3 to -5...and amazing storm relative helicity values near 1000 m²/s². Strong mid-level convection in association with the upper low in Missouri and attendant 80 knot jet combined with strong low-level theta-e advection over the warm front and increasing large scale ascent ahead of the 250 millibar 130 knot jet max triggered a line of severe thunderstorms over northeast Illinois by late afternoon.

This line of storms continued to intensify as they raced eastward at 40 knots. With low freezing levels in place and cooling aloft as the upper low pushed northeast...wide spread severe hail fell in nearly every county across northern Indiana that evening. Two elevated supercells developed ahead of the main line in northwest Indiana early that evening and marched eastward. The first supercell tracked from Lake county east into Lagrange county before weakening. The second supercell developed further south across Jasper county and moved east into Allen county before weakening. Both were very efficient hail producers with some locations reporting several inches of hail accumulation on the ground. Additionally both produced several funnel clouds which stayed aloft likely due to the elevated nature of the convection and very stable boundary layer which prevented most of the rear flank downdraft from reaching the surface.